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APPLICATION NO.	FILING DAT	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/942,822	08/29/200	Arturo Fagundo	50325-0589 (4410)	9226	
29989	7590 06/	5/2005	. EXAM	EXAMINER	
	PALERMO TR	SHINGLES,	SHINGLES, KRISTIE D		
SUITE 550	WAY PLACE	ART UNIT	PAPER NUMBER		
SAN JOSE, CA 95110			2141		

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) Office Action Summary	•						
## Examiner ## Link #		Application No.	Applicant(s)				
Rrische Shingles 2141	=	09/942,822	FAGUNDO ET AL.				
- The MALING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edemicance for mem yet be revisible under the provious of 3 CFR 1.13(o). In no event, however, may a reply be timely filled Edemicance for reply specified above is less that there (20) days, a reply visible the self-communication for reply specified above. The maximum statistry period village pay and ville girbs ((i) MONTHS from the mailing date of this communication for reply specified above. The maximum statistry period village pay and villegings ((i) MONTHS from the mailing date of this communication is play visible to exceed patient term subject them subject to the specification to become ABANCONED (30 U.S.C.§ 133). Status 1) ② Responsive to communication(s) filled on 17 March 2005. 2a) ☐ This action is FINAL. 2b) ② This action is final. 2b) ③ Claim(s) 1.22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are objected to. 6) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 9) ☐ The specification is objected to by the Examiner. 10) ③ The drawing(s) filled on 17 March 2005 is/are: a) ② accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 3) ☐ All	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. □ Exercision of time may be available under the proteions of 37 CFR 1.136(s). In no event, however, may a rapity be timely filled □ If the period for regly is pacified above, the maximum statutory pretion the statutory minimum of thiny (30) days will be considered timely. □ If NO period for regly is specified above, the maximum statutory pretion will expire SIX (5) MONTHS from the mailing date of this communication. □ Failure to apply when the sate or wear administerable the period of the specified above, the maximum statutory pretion will be presented above. The maximum statutory pretion will be presented above. The mailing date of this communication, even if series yield. (19.13.C) specified above, the mailing date of this communication, even if series yield. (19.13.C) specified above, the mailing date of this communication, even if series yield. (19.13.C) specified above, the mailing date of this communication, even if series yield. (19.13.C) specified any series are specified above. The mailing date of this communication, even if series yield. (19.13.C) specified any series are specified above. The mailing date of this communication, even if series yield. (19.13.C) specified any series are specified and the series are specified and series are specified as a specified and series are specified. □ Station in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1.29 is/are pending in the application. 4a) Of the above claim(s) is solved to. □ Claim(s) 1.29 is/are allowed. □							
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1)⊠ Responsive to communication(s) filed on 17 March 2005. 2a)□ This action is FINAL. 2b)⊠ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)☑ Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) is/are allowed. 6)☑ Claim(s) 1-29 is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)☒ The drawing(s) filed on 17 March 2005 is/are: a)☒ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1)☑ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)□ Information Disclosure Statement(s) (PTO-1449 or PTO/S800) 4)□ Information Disclosure Statement(s) (PTO-1449 or PTO/S800)	A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
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Art Unit: 2141

DETAILED ACTION

Response to Amendment

Applicant has amended claims 7 and 20. Claims 1-29 are pending.

Drawings

1. The proposed drawing corrections filed on 3/17/2005 have been accepted by the Examiner. The corrections to the drawings will not be held in abeyance.

Specification

2. The proposed specification corrections filed on 3/17/2005 have been accepted by the Examiner. The corrections to the specification will not be held in abeyance.

Claim Objections

3. Per claim 7, the proposed typographic correction filed on 3/17/2005 has been accepted by the Examiner. Correction of the claim language will not be held in abeyance.

Response to Arguments

Applicant's arguments, see Remarks filed on 3/17/2005, with respect to the rejections of claims 1, 16 and 26-29 under USC 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new

Application/Control Number: 09/942,822 Page 3

Art Unit: 2141

ground of rejection is made in view of McKeehan et al (USPN 6,061,708), March et al (USPN 6,061,708) and Gurijala et al (USPN 6,601,090).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-7, 13, 14, 16-19, 22-24 and 26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over McKeehan et al (USPN 6,061,708) in view of March et al (US 20030007486).
- a. **Per claim 1**, *McKeehan et al* teach a method for translating between logical addresses and ports of a first network and a logical address and ports of a second network connected to the first network at an intermediate device, the method comprising the computer-implemented step of:
 - receiving at the intermediate device a first packet from a first device having a first address on the first network (Abstract, col.3 lines 27-45, col.5 lines 5-19; server receives request from client application);
 - determining whether the first packet includes a first message that registers a first resource on the first device with a protocol server for a particular protocol, the protocol server available at the second device on the second network (col.3 lines 36-59, col.7 lines 11-42, col.9 lines 10-54, col.10 lines 10-58; provision for object resource registration, wherein all resources are with the root server and resources are registered according to the commit protocol before the transactions are transmitted); and

Art Unit: 2141

• if it is determined that the first packet includes the first message registering the first resource, then determining first information in the first message for uniquely requesting the first resource, and storing data indicating the first information in a first data structure in association with the first address (col.3 lines 36-59, col.5 lines 5-19, col.7 line 43-col.8 line 45, col.10 lines 48-57; the transactions include information specific to the registered resources and data is maintained and stored as to the location of the registered resources).

Yet McKeehan et al fail to explicitly teach translating between logical addresses and ports of a first network and a logical address and ports of a second network connected to the first network at an intermediate device and sending a second packet to a second device on the second network in response to receiving the first packet, the second packet including, in a source address field, data indicating a particular address of the intermediate device on the second network.

However, *March et al* disclose network address and/or port translation between devices and receiving data units on one or more networks with a source address and port and a destination address and port. Specifically, a message is sent to a second server of a second network, wherein the message contains source, port and destination address data (Abstract, Figure 1, paragraphs 0006, 0007, 0024 and 0126-0153).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *McKeehan et al* and *March et al* for the purpose of implementing network address and/or port translation providing a level privacy in hiding the network addresses of nodes and ports for protecting the integrity of the routing management between the nodes. Also, it is obvious to include source and destination information in packets transmitted over a network for tracking purposes.

b. Claims 16 and 26-29 contain limitations that are substantially equivalent to claim 1 and are therefore rejected under the same basis.

Art Unit: 2141

c. Per claim 2, McKeehan et al and March et al teach the method as recited in Claim 1, March et al further teach the method further comprising the computer-implemented step of: receiving at the intermediate device a third packet from a third device on the second network (Figures 1 and 2, paragraphs 0006, 0020-0041, 0124, 0181 and 0182); determining whether the third packet includes a second message requesting a second resource according to the particular protocol (paragraphs 0007, 0022, 0024, 0032-0035, 0041-0054, 0070-0084 and 0142); and if it is determined that the third packet includes the second message requesting the second resource, then determining second information in the second message for uniquely requesting the second resource (paragraphs 0120, 0126, 0141 and 0142), determining whether the second information matches the first information in the data structure (paragraphs 0035-0084), and if the second information matches the first information, sending the second message to the first device having the first address associated with the first information (paragraphs 0084 and 0085).

Page 5

- d. Per claim 3, McKeehan et al and March et al teach the method as recited in Claim 1, March et al further teach the method, wherein, if it is determined that the first packet includes the first message, then inserting in the second packet a second message based on the first message (paragraphs 0054, 0104, 0105 and 0110-0121).
- e. Claim 17 is substantially equivalent to claim 3 and is therefore rejected under the same basis.
- f. Per claim 4, March et al teach the method as recited in Claim 3, wherein the second message is the same as the first message (paragraphs 0053-0055).

Art Unit: 2141

g. Claim 18 is substantially similar to claim 4 and is therefore rejected under the

same basis.

h. Per claim 5, March et al teach the method as recited in Claim 3, further

Page 6

comprising the computer-implemented step of generating the second message by replacing, in a

source address field, data indicating the first address with data indicating the particular address

of the intermediate device on the second network (paragraphs 0033-0035, 0085, 0086, 0089 and

0105).

i. Claim 6 is substantially similar to claims 3 and 5 and is therefore rejected under

the same basis.

j. Per claim 7, McKeehan et al and March et al teach the method as recited in

Claim 1, wherein the particular protocol uses a well-known port for requesting the first resource

(paragraphs 0031-0035, 0053, 0088 and 0089).

k. Claim 19 is substantially similar to claim 7 and is therefore rejected under the

same basis.

1. Per claim 13, March et al teach the method as recited in Claim 2, wherein the

third packet includes, in a destination address field, data indicating the particular address of the

intermediate device (paragraphs 0043-0054).

Claim 22 is substantially similar to claim 13 and is therefore rejected under the

same basis.

m.

n. Claims 14 and 23 are substantially similar to claims 7 and 13 and are therefore

rejected under the same basis.

Application/Control Number: 09/942,822 Page 7

Art Unit: 2141

O. Per claim 24, McKeehan et al and March et al teach the method as recited in Claim 16, wherein the first device obtains the first information from a protocol server that is not on the first network (Figure 1, paragraphs 0006 and 0018-0022).

- 7. Claims 8-12, 15, 20, 21 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over McKeehan et al (USPN 6,061,708) and March et al (US 20030007486) in view of Gurijala et al (USPN 6,601,090).
- a. Per claim 8, McKeehan et al and March et al teach the method of Claim 1 as applied above, yet fail to explicitly teach the method as recited in Claim 1, wherein the particular protocol is a network basic input and output system (NetBIOS) open protocol. However, Gurijala et al teach support of the NetBIOS protocol with the use of the object caching system, which comprises a cache name server and plurality of web cache servers (Abstract and col.4 lines 19-27).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of *McKeehan et al*, *March et al* and *Gurijala et al* for the purpose of extending the compatibility of the system to support the NetBIOS standard protocol which serves to activate network operations on IBM compatible computing devices operating under MS-DOS or some version of UNIX; because it would enhance the system to be able to provide name registration and services while allowing for requests of the lower-level network services to conduct sessions between networked nodes.

b. Claims 9, 20 and 25 are substantially similar to claim 8 and are therefore rejected under the same basis.

Application/Control Number: 09/942,822 Page 8

Art Unit: 2141

c. Per claim 10, McKeehan et al and March et al teach the method as recited in Claim 1, March et al further teach the method, wherein the first information is a resource name (col.4 lines 8-18 and col.5 lines 10-15).

- d. Claim 21 is substantially similar to claim 10 and is therefore rejected under the same basis.
- e. Per claim 11, McKeehan et al and March et al teach the method Claim 5 as applied above, yet fail to explicitly teach the method as recited in Claim 5, wherein the protocol server is a name server that stores a resource name of the first resource in the second message in association with an address based on data in the source address field of the second message. However, Gurijala et al teach a cache name server that stores the resource/object name in a second message or object request that also includes the URI or IP address of the requested object, data is not stored in a port field (col.2 lines 44-55, col.4 lines 8-18, col.5 lines 7-24, col.5 lines 55-65 and col.6 lines 31-41).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of McKeehan et al, March et al and Gurijala et al for the purpose of recording and maintaining an updated account of resource locations in a server for use in generating messages to the right resource providers; because the efficiency of the system to access resources, depends on the resources being properly associated with their corresponding addresses and to remedy or update any inconsistencies of misinformation.

f. Claim 12 is substantially similar to claim 11 and is therefore rejected under the same basis.

g. Per claim 15, McKeehan et al and March et al teach the method of Claim 1 as applied above, yet fail to explicitly teach method as recited in Claim 1, further comprising the computer-implemented steps of: monitoring messages associated with registering the first resource with the protocol server; determining whether the first resource is not registered with the protocol server; and if it is determined that the first resource is not registered with the protocol server, then removing from the first data structure the data indicating the first information in association the first address. However, Gurijala et al teach determining that a resource is not present in the CNS—cache name server—database after searching for the requested resource, removing the information identifying the location of the resource and, if later found in a different location, replacing it with updated information (col.5 line 26-col.6 line 21).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of McKeehan et al, March et al and Gurijala et al for the purpose of maintaining an updated account of resource locations in a server for efficient accessibility of the resource. Because network resources change frequently, it is important to keep a current entry of where the resource is and to remove or revise its old information.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Lette et al (US 20030018784), Kan et al (USPN 6,463,456), Sekiguchi et al (USPN 6,772,419), Hussey (US 20050086641) and Holdsworth et al (USPN 6,038,589).

Art Unit: 2141

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kristie Shingles whose telephone number is 571-272-3888. The

examiner can normally be reached on Monday-Friday 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Page 10

supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kristie Shingles Examiner Art Unit 2141

kds

SUPERVISORY PATENT EXAMINER